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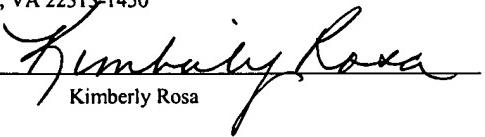
PATENT  
Attorney Docket No.: 02307B-099030US  
Client Reference No.: B99-099

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Commissioner for Patents

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By: 

Kimberly Rosa

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

David W. Ow et al.

Application No.: To Be Assigned

Filed: Herewith

For: DNA RECOMBINATION IN  
EUKARYOTIC CELLS BY THE  
BACTERIOPHAGE PHIC31  
RECOMBINATION SYSTEM

Examiner: To Be Assigned (parent: K.  
Katcheves)

Art Unit: To Be Assigned (parent: 1636)

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

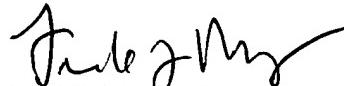
The references cited on the attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 09/620,800, filed July 21, 2000 (Attorney Docket No. 02307B-099010US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants, in particular, call the Examiner's attention to U.S. Patent Application 2002/0123145 A1 published on 09-05-2002.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Frank J. Mycroft  
Reg. No. 46,946

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60087820 v1

Substitute for form 1449A/PTO				<i>C mplete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	To Be Assigned
Sheet	1	of	8	Filing Date	Herewith
				First Named Inventor	Ow, David W.
				Art Unit	To Be Assigned (parent:1636)
				Examiner Name	To Be Assigned (parent: K. Katcheves)
				Attorney Docket Number	02307B-099030US

<b>U.S. PATENT DOCUMENTS+</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	1.	5,190,871		03-02-1993	Cox et al.
	2.	5,527,695		06-18-1996	Hodges et al.
	3.	5,744,336		04-28-1998	Hodges et al.
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	5.	6,110,736		08-29-2000	Hodges et al.
	6.	6,114,600		09-05-2000	Ow et al.
	7.	6,143,530		11-07-2000	Crouzet et al.
	8.	6,175,058		01-16-2001	Baszcynski et al.
	9.	6,187,994		02-13-2001	Baszcynski et al.
	10.	6,262,341		07-17-2001	Baszcynski et al.
	11.	2002/0123145 A1		09-05-2002	Ow

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code <sup>3</sup>	Number <sup>4</sup>		
	12.	WO	97/37012	10-09-1997	Commonwealth Scientific and Industrial Research
	13.	WO	99/18222	A	Alonso Juan C et al.
	14.	WO	99/25821		Pioneer Hi-Breed Int'l
	15.	WO	00/11155	A	Leland Stanford Junior University
	16.	WO	00/60091		Oklahoma Medical Research Found.
	17.	WO	01/07572	A3	University of California

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Sheet	2	of	8	<i>Attorney Docket Number</i>	02307B-099030US

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	18.	ALBERT et al., "Site-specific integration of DNA into wild-type and mutant lox sites placed in the plant genome," Plant J., 7:649-59 (1995)		
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	34.	CRISONA et al., "Processive Recombination by Wild-type Gin and an Enhancer-independent Mutant," J. Mol. Biol., 243(3):437-57 (1994)		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>					
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Sheet	3	of	8		
				<i>Application Number</i>	To Be Assigned
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	35.	DAVIES et al., "Somatic and germinal inheritance of an FLP-mediated deletion in transgenic tobacco," <i>J. of Experimental Botany</i> , 50:1447-56 (1999)		
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	40.	FENG et al., "Site-specific Chromosomal Integration in Mammalian Cells: Highly Efficient CRE Recombinase-mediated Cassette Exchange," <i>J. Mol. Biol.</i> , 292:779-85 (1999)		
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	47.	HAJDUKIEWICZ et al., "Multiple pathways for Cre/lox-mediated recombination in plastids," <i>The Plant J.</i> , 27:161-170 (2001)		
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	52.	IGLESIAS et al., "Molecular and Cytogenetic Analyses of Stably and Unstably Expressed Transgene Loci in Tobacco," <i>The Plant Cell</i> , 9:1251-1264 (1997)		
	53.	IYER et al., "Transgene silencing in monocots," <i>Plant Mol. Biol.</i> , 43:323-46 (2000)		
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	55.	JORGENSEN, "Cosuppression, Flower Color Patterns, and Metastable Gene Expression States," <i>Science</i> , 268:686 (1995)		
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	59.	KLUTH et al., "Inheritance and expression of transgenes in hexaploid wheat," 3:192		
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	69.	LOONSTRA et al., "Growth inhibition and DNA damage induced by Cre recombinase in mammalian cells," PNAS, 98:9209-14 (2001)		
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	86.	OW, "Recombinase-directed plant transformation for the post-genomic era," <i>Plant Molecular Biology</i> , 48:183-200 (2002)		
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	93.	SADOWSKI, "Site-Specific Recombinases: Changing Partners and Doing the Twist," <i>J. Bacteriol.</i> 165(2): 341-347 (1986)		
	94.	SATO et al., "The cisA Cistron of <i>Bacillus subtilis</i> Sporulation Gene spoIVC Encodes a Protein Homologous to a Site-Specific Recombinase," <i>J. Bacteriol.</i> 172(2):1092-1098 (1990)		
	95.	SAUER, "Site-specific recombination: developments and applications, <i>Curr. Opin. in Biotechnol.</i> 5:521-527 (1994)		
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	97.	SEIBLER and BODE, "Double-Reciprocal Crossover Mediated by FLP-Recombinase: A Concept and an Assay," <i>Biochem.</i> , 36:1740-7 (1997)		
	98.	SEIBLER et al., "DNA Cassette Exchange in ES Cells Mediated by FLP Recombinase: An Efficient Strategy for Repeated Modification of Tagged Loci by Marker-Free Constructs," <i>Biochemistry</i> , 37:6229-34 (1998)		
	99.	SRIVASTAVA and OW, "Single-copy primary transformants of maize obtained through the co-introduction of a recombinase-expressing construct," <i>Plant Mol. Biol.</i> , 46:561-566 (2001)		
	100.	SRIVASTAVA et al., "A General Strategy For Introducing A Single Copy Transgene Into Plant Genome: Demonstration Of Single Copy Transgenic Lines Of Wheat ( <i>Triticum aestivum</i> )," Published Internet Nov. 1997		
	101.	SRIVASTAVA et al., "Molecular characterization of the fate of transgenes in transformed wheat ( <i>Triticum aestivum L.</i> )," <i>Theor Appl Genet</i> , 92:1031-1037 (1996)		
	102.	SRIVASTAVA et al., "Single-copy transgenic wheat generated through the resolution of complex integration patterns," <i>Proc. Natl. Acad. Sci. USA</i> , 96:11117-11121 (1999)		

Examiner Signature	Date Considered
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<sup>2</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO				<i>C o m p l e t e i f K n o w n</i>	
				Application Number	To Be Assigned
				Filing Date	Herewith
				First Named Inventor	Ow, David W.
				Art Unit	To Be Assigned (parent: 1636)
				Examiner Name	To Be Assigned (parent: K. Katcheves)
Sheet	7	of	8	Attorney Docket Number	02307B-099030US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	103.	STARK et al., "Catalysis by site-specific recombinases, Trends Genetics 8(12):432-439 (1992)		
	104.	STAVENHAGEN and ZAKIAN, "Internal tracts of telomeric DNA act as silencers in <i>Saccharomyces cerevisiae</i> ," Genes and Dev., 8:1411-22 (1994)		
	105.	STRAGIER et al., "Chromosomal Rearrangement Generating a Composite Gene for a Developmental Transcription Factor," Science 243:507-512 (1989)		
	106.	THOMASON et al., "Gene insertion and replacement in <i>Schizosaccharomyces pombe</i> mediated by the <i>Streptomyces</i> bacteriophage $\Phi$ C31 site-specific recombination system," Mol. Genet. Genomics, 265:1031-8 (2001)		
	107.	THORPE and SMITH, "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," Proc. Nat'l. Acad. Sci. USA 95:5505-5510 (1998)		
	108.	THYAGARAJAN et al., "Mammalian genomes contain active recombinase recognition sites, GENE, 244:47-54 (2000)		
	109.	THYAGARAJAN et al., "Site-Specific Genomic Integration in Mammalian Cells Mediated by Phage $\Phi$ C31 Integrase," Mol. and Cell. Biol., 21:3926-34 (2001)		
	110.	TOMINAGA et al., "Site-Specific Recombinase Genes in Three <i>Shigella</i> Subgroups and Nucleotide Sequences of a pinB Gene and an Invertible B Segment from <i>Shigella boydii</i> ," J. Bacteriol., 173(13):4079-87 (1991)		
	111.	VASIL et al., "Rapid Production of Transgenic Wheat Plants by Direct Bombardment of Cultured Immature Embryos," Bio/Technology, 11:1553 (1993)		
	112.	VERGUNST and HOOYKAAS, "Cre/lox-mediated site-specific integration of Agrobacterium T-DNA in <i>Arabidopsis thaliana</i> by transient expression of cre," Plant Mol. Biol., 38:393-406 (1998)		
	113.	VERGUNST et al., "Cre/lox-mediated recombination in <i>Arabidopsis</i> : evidence for transmission of a translocation and a deletion event," Chromosoma, 109:287-97 (2000)		
	114.	VERGUNST et al., "Site-specific integration of Agrobacterium T-DNA in <i>Arabidopsis thaliana</i> mediated by Cre recombinase," Nucleic Acids Res., 26:2729-34 (1998)		
	115.	VERGUNST et al., "VirB/D4-Dependent Protein Translocation from Agrobacterium into Plant Cells," Science, 290:979-82 (2000)		
	116.	VOZIYANOV et al., "A general model for site-specific recombination by the integrase family recombinases," Nucl. Acids Res. 27(4):930-941 (1999)		
	117.	WALLRATH and ELGIN, "Position effect variegation in <i>Drosophila</i> is associated with an altered chromatin structure," Genes and Dev., 9:1263-77 (1995)		
	118.	WEEKS et al., "Rapid Production of Multiple Independent Lines of Fertile Transgenic Wheat ( <i>Triticum aestivum</i> )," Plant Physiol., 102:1077-1084 (1993)		
	119.	WEISBERG & LANDY (1983) "Site-specific Recombination in Phage Lambda" In <u>Lambda II</u> , eds. Hendrix et al. (Cold Spring Harbor Laboratory, Cold Spring Harbor NY) pp. 211-250 (1983)		

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Substitute for form 1449B/PTO				<b><i>Complete if Known</i></b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	To Be Assigned
				Filing Date	Herewith
				First Named Inventor	Ow, David W.
				Art Unit	To Be Assigned (parent: 1636)
				Examiner Name	To Be Assigned (parent: K. Katcheves)
Sheet	8	of	8	Attorney Docket Number	02307B-099030US

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	120.	ZUC et al., "Chemical-regulated, site-specific DNA excision in transgenic plants," Nature Biotechnology, 19:157-61 (2001)		

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